

Title (en)  
METHOD AND APPARATUS FOR ELECTRIC STEELMAKING

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR ELEKTRISCHEN STAHLHERSTELLUNG

Title (fr)  
PROCEDE ET DISPOSITIF DE PRODUCTION ELECTRIQUE D'ACIER

Publication  
**EP 0777751 A1 19970611 (EN)**

Application  
**EP 95931668 A 19950829**

Priority

- US 9511111 W 19950829
- US 29768694 A 19940829

Abstract (en)  
[origin: WO9606954A1] A burner/injector (200) and method for providing a localized impingement flame or multiple flames for scrap heating and melting through use of a fluid fuel and at least one oxygen rich oxidizing gas. The burner/injector (200) includes a liquid-cooled combustor for generating an impinging flame directed toward a scrap pile and a structure for injecting a controllable amount of solid carbonaceous fuel (204) and a controllable flow of high velocity oxidizing gas (232) into space that has been previously occupied by the impinging flame.

IPC 1-7  
**C21C 5/48; C21C 5/52**

IPC 8 full level  
**C21B 5/00** (2006.01); **C21B 13/10** (2006.01); **C21C 5/46** (2006.01); **C21C 5/52** (2006.01); **F23D 14/22** (2006.01); **F23D 14/32** (2006.01); **F23D 14/78** (2006.01); **F23D 17/00** (2006.01); **F23D 99/00** (2010.01); **F27B 3/20** (2006.01); **F27B 3/22** (2006.01); **F27D 3/16** (2006.01); **F27D 99/00** (2010.01); **C21C 5/36** (2006.01); **F27D 9/00** (2006.01)

CPC (source: EP US)  
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**WO 9606954 A1 19960307**; AU 3500995 A 19960322; CA 2198901 A1 19960307; CA 2198901 C 20080603; DE 69524233 D1 20020110; DE 69524233 T2 20020523; EP 0777751 A1 19970611; EP 0777751 A4 19980422; EP 0777751 B1 20011128; EP 1123982 A1 20010816; US 5599375 A 19970204

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**US 9511111 W 19950829**; AU 3500995 A 19950829; CA 2198901 A 19950829; DE 69524233 T 19950829; EP 01110043 A 19950829; EP 95931668 A 19950829; US 33698494 A 19941110